INTERNATIONAL SEARCH REPORT

International application No.

		PCT/JP.	2004/013039		
A. CLASSIFICATION OF SUBJECT MATTER					
Int.Cl ⁷ H01H25/06, H01H19/56					
According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols)					
	H01H25/06, H01H19/56	Simoddon Symbols)			
Dogumentation 6	earched other than minimum documentation to the exter	at that such documents are included in the	ne fields searched		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitsuyo Shinan Koho 1922–1996 Jitsuyo Shinan Toroku Koho 1996–2004					
Kokai Jitsuyo Shinan Koho 1971-2004 Toroku Jitsuyo Shinan Koho 1994-2004					
Electronic data h	ase consulted during the international search (name of d	ata base and, where practicable, search t	erms used)		
Electronic data b	ase constitued during the international search (name of d	ata vase and, where praeticable, scaren e	orms usou)		
a possible	TO CONCIDENT TO BE DELETANT				
C. DOCUMEN	TS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where app	propriate, of the relevant passages	Relevant to claim No.		
Y	JP 2001-135197 A (Matsushita	Electric	1-9		
	Industrial Co., Ltd.),				
	18 May, 2001 (18.05.01),	1 1 10			
	Par. Nos. [0034] to [0097]; F	igs. I to 19			
	(Family: none)				
Y	JP 56-39135 Y2 (Tokyo Parts)	Industrial Co.,	1-9		
	Ltd.),	·			
	11 September, 1981 (11.09.81)				
	Full text; Figs. 1 to 2				
	(Family: none)				
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× Further do	ocuments are listed in the continuation of Box C.	See patent family annex.			
			A A! 1 #91		
Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance		"T" later document published after the in date and not in conflict with the appli the principle or theory underlying the	ication but cited to understand		
"E" earlier application or patent but published on or after the international "X" docur		"X" document of particular relevance; the considered novel or cannot be cons			
filing date "L" document which may throw doubts on priority claim(s) or which is		step when the document is taken alor			
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		"Y" document of particular relevance; the considered to involve an inventiv			
"O" document referring to an oral disclosure, use, exhibition or other means		combined with one or more other suc	h documents, such combination		
"P" document published prior to the international filing date but later than		being obvious to a person skilled in t "&" document member of the same naten			
the priority date claimed "&" document member of the same patent family					
Date of the actual completion of the international search Date of mailing of the international search report					
08 Nove	ember, 2004 (08.11.04)	22 November, 2004			
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Name and mailing address of the ISA/		Authorized officer			
Japanese Patent Office					
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Form PCT/ISA/210 (second sheet) (January 2004)

INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2004/015059

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT .	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 9-102247 A (Tokai Rika Co., Ltd.), 15 April, 1997 (15.04.97), Par. No. [0007]; Figs. 1 to 4 (Family: none)	1-9
Y	(Family: none) JP 2001-167665 A (Alps Electric Co., Ltd.), 22 June, 2001 (22.06.01), Par. Nos. [0029] to [0035]; Figs. 6, 26, 31 & US 2001/0003682 A & EP 1106971 A1 & DE 60001480 T & CN 1305206 A & TW 469461 B	1-9